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**UTILITY PATENT APPLICATION TRANSMITTAL  
(Small Entity)***(Only for new nonprovisional applications under 37 CFR 1.53(b))*Docket No.  
2799CIPTotal Pages in this Submission  
60**TO THE ASSISTANT COMMISSIONER FOR PATENTS**Box Patent Application  
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

**SYSTEM AND METHOD FOR MARKETING OVER COMPUTER NETWORKS**

and invented by:

**Timothy A. Barton**jc678 U.S. PTO  
09/557822  
04/25/00If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No.: 09/303,788

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Enclosed are:

**Application Elements**

1. ☐ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 33 pages and including the following:
  - a. ☒ Descriptive Title of the Invention
  - b. ☐ Cross References to Related Applications *(if applicable)*
  - c. ☐ Statement Regarding Federally-sponsored Research/Development *(if applicable)*
  - d. ☐ Reference to Microfiche Appendix *(if applicable)*
  - e. ☒ Background of the Invention
  - f. ☒ Brief Summary of the Invention
  - g. ☒ Brief Description of the Drawings *(if drawings filed)*
  - h. ☒ Detailed Description
  - i. ☒ Claim(s) as Classified Below
  - j. ☐ Abstract of the Disclosure

# UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

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## Application Elements (Continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)
- a. ☐ Formal      b. ☒ Informal      Number of Sheets 24 (figures 1-17)
4. ☐ Oath or Declaration
- a. ☐ Newly executed (original or copy)      ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
- c. ☐ With Power of Attorney      ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application,  
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference (usable if Box 4b is checked)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Computer Program in Microfiche
7. ☐ Genetic Sequence Submission (if applicable, all must be included)
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

## Accompanying Application Parts

8. ☐ Assignment Papers (cover sheet & documents)
9. ☐ 37 CFR 3.73(b) Statement (when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement/PTO-1449      ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class      ☒ Express Mail (Specify Label No.): EL521541098US

# UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

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## Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)

16. ☐ Small Entity Statement(s) - Specify Number of Statements Submitted: \_\_\_\_\_

17. ☐ Additional Enclosures (please identify below):

## Fee Calculation and Transmittal

### CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims		- 20 =	0	x \$9.00	\$0.00
Indep. Claims		- 3 =	0	x \$39.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$345.00
OTHER FEE (specify purpose) _____					\$0.00
TOTAL FILING FEE					\$345.00

- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☐ The Commissioner is hereby authorized to charge and credit Deposit Account No. \_\_\_\_\_ as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of \_\_\_\_\_ as filing fee.
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- ☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

I certify that this application ~~is being deposited on~~ is being deposited on April 25, 2000 with the U.S. Postal Express Mail Service under 37 C.F.R. 1.10 and is addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231

Signature of Person Mailing Correspondence

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Dated: April 25, 2000

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

TITLE OF THE INVENTION:      SYSTEM AND METHOD FOR MARKETING OVER  
COMPUTER NETWORKS

DOCKET NO.:                      2799CIP

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**Field of the Invention**

5           The invention claimed relates to computer networks, and particularly, to marketing over computer networks and to network marketing and provision of freight trucking services.

**Background of the Invention**

10           Historically, less-than-truckload (“LTL”) freight trucking services have been rated and scheduled by phone calls to individual carriers or brokers, and confirmatory faxes or letters. As a result, the time involved in obtaining competitive quotes, scheduling the shipments, billing, tracking and confirming shipments has been significant. In addition, invoices, bills of lading and other important documentation have often contained mistakes or errors, leading to further time spent rectifying any problems. Because of the often personal nature of the quotes provided, it has been difficult to obtain accurate quoting services and rapid scheduling, and impossible to obtain a choice of freight trucking services from a single-source real-time network-based solution. In addition, significant errors in billing often occur with respect to accessorial services which include, among others, arrival notification, inside delivery and liftgate services. Often, a customer fails to notify the shipping agent that such services are desired or the shipping agent inputs the incorrect information while taking the order. These types of errors are so pervasive in the shipping industry that entire service companies exist to audit shipping invoices to correct these types of errors. Another error that is common is to enter an incorrect zip code for the delivery location. This again leads to both delivery problems and to billing inaccuracies similar to those described above.

15  
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Freight trucking services ordinarily consist of: rating, scheduling, tracking, confirming, and billing. Other related services can also be provided. It is useful to be able to see or generate reports of shipments made or in progress.

Rating the shipment involves providing information to the carrier or broker regarding the origin, destination, and kind of shipping desired. The carrier or broker then determines the rate, often with a negotiated discount, and quotes the rate to the user. The user will then schedule the shipment's pickup and delivery, if the rate is acceptable. It is useful for the user to be able to track the shipment, which is to be able to ascertain the transit status of the shipment once the order has been placed. Tracking services provided to the user are commonly based on a shipment number, which the user must have or look up if the user wishes to track a package. These tracking services allow the user to track single packages, based on the tracking number alone.

If a broker is used, the broker will need to confirm the shipment with the carrier in order to verify that the carrier will have capacity to handle the shipment. Again, this process typically involves telephone calls, faxes, and person-to-person contacts. These contacts lend inefficiency, inaccuracy, and time to an already cumbersome system, but are typically the way freight trucking shipments are rated and scheduled currently.

In freight trucking, volume discounts are often given by carriers in order to induce users to ship with them, and reward repeat business. These discounts can amount to up to 70% of the carrier's base tariffs, and often result in substantial savings to those shippers able to get such discounts. These discounts are not typically available to individual users, other than based on their individual volume of shipments. Sometimes, these volume discounts may be granted to a broker,

who may pass a portion of the discount on to the broker's users, or to a group of similarly situated shippers.

A number of network-based shipping services have come into being in recent years. These services, typically, perform the same services provided by a carrier, but over the Internet or other network. Typically, the services provided will be a simple quoting or rating service, along with a scheduling request. No services provide real-time rating and scheduling of shipments or customized branding and reporting by user.

While a number of specialized network-based services have been developed for target markets such as network-based auctioning, retail sales, or grocery shopping, no advanced system for providing general freight shipping services over a network has been developed.

Additionally, existing network-based services generally have a model which is used for providing services. Such a service will be provided with either a single affiliation or a banner advertisement which will be determined randomly at the time a user accesses the service. Hence, a web site or other network-based service will have advertisements or affiliations, but these affiliations and advertisements will be statically determined or based on random selection. In other words, a single web-site or network-based service will appear to be affiliated with only one group or organization, and though it may have a plurality of advertisers, those advertisers may appear as a group or in banner advertisements.

#### Definition of the Terms

The following terms are used in the claims of the patent as filed and are intended to have their broadest equivalent meaning consistent with the requirements of law.

"Affiliation" or "Association" means an organization or group of which a user may be a member.

5 "Affinity group" or "affiliation group" means a group with similar interests, such as a professional organization or other group. Any group of users may be referred to as an affinity group or affiliation group.

"Branding" means marking or displaying an affinity or affiliation indication or associating a service with an affinity or affiliation.

"Carrier SCAC" or "SCAC" means or any code or abbreviation used to represent a carrier.

10 "Carrier information" means any data or information stored in the database regarding the carriers. This may include SCAC, rate information, discount information, markup information, or any other kind of information related to a carrier.

"Customer information or user information" means any data or information stored in the database regarding the customer.

15 "Customer" means a user who has been registered with the service, and has access to a master account or a sub-account.

"Database" means a collection of information stored in a format which allows searching by a computer, program or user.

"Freight trucking" means land-based shipping of full or partial loads by any shipping vehicle, such as a truck, automobile, panel van, or other shipping vehicle.

20 "Freight trucking" means shipping performed over land, using trucks, either the entire truck or a portion thereof.



"Freight marketing" means the marketing of freight trucking services.

"HTML" means Hypertext Markup Language.

"LTL shipping" means "less-than-truckload" shipping, or shipping involving any size load, including specifically loads with are less than an entire truckload. This definition is meant to be inclusive rather than exclusive, and also includes loads which are equal to or greater than an entire truckload.

"Marketing" means advertising, selling, providing, or any combination thereof.

"Master Account" means an account on the Service affiliated with a single user. An account will usually include a personal identification, such as a name or code, and a password or PIN. This account will grant access to the Service upon the entry of the personal identification and the password or PIN, though it may involve any kind of mechanism for identification of the user, such as a password or account name alone, or a name paired with a "cookie" provided by the user's computer, or any similar device.

"Network" means any distributed computer network, including, without limitation, both private and public networks, such as IPX networks or the Internet.

"NMFC number" means National Motor Freight Classification number, but may also indicate any code in any system for classifying freight shipments.

"OCR" means optical character recognition.

"PIN" means personal identification number.

"POD" means proof of delivery or proof of delivery form.

"Programs" or "software" means any machine-operable code stored on a computer permitting it to operate or perform a function.

"Quotation" means a price quote for a service, such as a shipment.

5 "Rating" means quoting a price based on shipment data provided by a customer or user, such as a stated shipment type, origin, and destination.

"Shipper" means the location, entity, user, or person from which a shipment is picked up or sent.

"Sub-account" means a sub-division of a master account. These sub-accounts may be accessible by the Master Account's user through use of a separate password or PIN.

10 "The service" means the service for providing services related to freight trucking over a distributed network such as the Internet or World Wide Web, or any other distributed network.

"The system" means the computer hardware and software used in providing the service. In the currently preferred embodiment, this includes the server computer.

15 "The server" means the computer hardware used in providing the service. This may include, as in the currently preferred embodiment, a web server and a database server. The server may also be a single computer or a plurality of computers.

"Carrier" means an individual or organization providing freight shipping services.

"Tracking" means providing information regarding shipment status.

"User" means customer, potential customer, or other person accessing the service.

20 "Web browser" means any software adapted for accessing web pages or other files over the Internet or a distributed network. Examples of such software are Netscape Navigator and Internet

Explorer. Where alternative meanings are possible, the broadest meaning is intended. All words used in the claims are intended to be used in the normal, customary usage of grammar and the English language.

### Summary of the Invention

5 The invention provides a novel system and method for affiliation of a service provided over a network with a plurality of entities and a novel system and method for providing customized shipping quoting, scheduling, tracking and reporting.

10 A novel feature of the invention is the custom branding of the services provided with an association, affinity group, or organization logo and name, ascertained from information provided by the user. Any service provided may appear to different customers or users to be provided by or affiliated with different associations, organizations or affinity groups. This feature is novel with respect to all services provided over a distributed network.

15 The invention allows a user to obtain actual quotes for LTL shipping from a plurality of carriers. The user may then schedule the pick-up and shipment from the shipper of choice, and generate a bill of lading and customer invoice. The user benefits from group or other discounts provided by the service or their affiliation, and may choose the most favorable rate from among a number of shippers, or may choose a favored shipper based on criteria of the user's choice. The user is able to obtain an actual rate, incorporating any discounts, and can see precisely the amount which the user will pay if the user elects to use the shipping service quoted.

20 The invention maintains a database of carriers, and upon receiving a rating request from a user, queries the database in order to determine which carriers will provide service. The system then

determines the rate applicable to each carrier, based on any volume discounts provided and applicable markups, and quotes the rates of all applicable carriers to the user. Once the rating process is completed, the user may choose the carrier it wishes to use for the shipment, and schedule the shipment.

5           The invention permits the user to select from a plurality of features or accessorial services for the shipping services chosen, such as arrival notification, inside delivery, liftgate services, or others. The charges for these features or accessorial services are automatically calculated and displayed to the user. Moreover, inaccuracies with respect to the accessorial service charges are further reduced by requiring the user to address each accessorial service individually before the user may exit the accessorial page and move further through the system.

10           The invention permits the user to rate and schedule either a single shipment or a plurality of freight shipments at one time.

15           Yet another aspect of the present invention is to reduce errors resulting from inputting incorrect zip code information. This may be accomplished by comparing the inputted delivery location zip codes with stored delivery location zip coded used by the shipper in the past to determine, if the zip code information inputted reconciles with locations used in the past.

20           Another feature of the invention is the ability to customize the interface for each customer or user, permitting the quoting service to recall for the customer or user their prior orders, and data provided earlier by the user. The system dynamically stores shipping addresses and other data for each user, permitting the user to schedule later shipments to or from repeated addresses, bill repeat customers, or perform any repetitive task without requiring the user to supply information again.

This feature is novel in the area of freight services marketing over a distributed network, and has numerous novel aspects.

An aspect of the customization is the ability to generate specific management reports, specifically permitting the user to create and run customized reports, which can then be transmitted to the user either over the network, via electronic mail or facsimile. These reports can cover shipment tracking, shipment usage, or other features of the service, can be run both by user request and automatically, and can cover shipments already invoiced and not yet invoiced.

Another aspect of the customization is the ability for each user to maintain sub-accounts for each master account. A user may have multiple sub-accounts for each master account, with each sub-account having its own password or PIN. These accounts may be associated with different employees of the user, different customers of the user, or any categorization which the user desires. This permits the user to restrict access to certain information or to more easily track different uses of the service.

Another aspect of the customization permits the user, once the user has scheduled shipments, to access a tracking report or shipment log of all prior shipments. These shipments may be tracked by the user without reference to a specific shipment number or code, and permits the user to access, both by user and by sub-account, records of all shipments scheduled through the service. Individual shipments may also be tracked without the use of a tracking number or code.

Another aspect of the customization permits a user to access invoices, past and present, including payments and credits. The user may also view payment and credit details on a monthly basis. Another aspect of the service permits the user to maintain and utilize a database of NMFC

numbers for the products shipped, allowing the user to accurately rate and schedule shipments based on both standard product descriptions and their own customized product descriptions, with appropriate NMFC numbers provided automatically by the system.

Another aspect of the service permits the user to create and print invoices for the user's own customers. These invoices may be printed while the user is accessing the service upon scheduling a shipment. The service stores customer information for each user, which the user may access for repeat shipments. The invoices are custom-generated for the user, and the system permits the user to add their cost to the cost of the freight, thereby permitting a completely custom invoice. The invoices are printed on a ready-to-mail form for the convenience of the user.

Another aspect of the invention is automated pickup confirmation. The system either electronically notifies or faxes the carrier chosen by the user with an automatically generated pickup confirmation request. The fax request contains check-boxes for the carrier to mark, indicating whether the carrier will be able to handle the shipment or not. The carrier then faxes the request back to the service. The service automatically recognizes the pickup confirmation request using OCR software and updates the system automatically to reflect the carrier's reply. The user may access the system at any time to determine whether or not the user's shipment has been accepted, and track the shipment's status.

The system will also permit the user to print a Bill of Lading. In addition, if the user is not the shipper, the system can automatically fax a Bill of Lading and pickup instructions to the shipper.

The entire process of rating and scheduling a shipment may be performed by the user via access to the system. No telephone calls need be made, no confirmatory faxes or letters are sent by

the user. The user can rate, schedule, bill and track an entire shipment through access to the system, and generate custom reports regarding the user or any sub-accounts regarding the use of the system. Thus, the invention is a single-source, network-based solution for marketing freight trucking services.

5      **Brief Description of the Drawings**

Figure 1 shows an overview of the system, including the user computer, a network, and the service's server computers.

Figure 2 shows an overall flowchart of the service, from a user's point of view.

Figure 3 shows the login page for a web-based version of the invention.

10      Figure 4 shows the main menu page for a web-based version of the invention.

Figure 5 shows the rating page for a web-based version of the invention. Figure 5A shows an example of a multiple class entry page.

Figures 6 and 6A show the address information page for a web-based version of the invention.

15      Figure 7 shows the accessorial services page for a web-based version of the invention.

Figure 8 shows the product description page for a web-based version of the invention.

Figure 8A shows a shipment ready page for a web-based version of the invention.

Figure 9 shows the third-party invoice page for a web-based version of the invention.

Figure 10 shows a specimen invoice.

20      Figure 11 shows the complete shipment page for a web-based version of the invention.

Figure 12 shows a sample Bill of Lading.

Figure 13 shows the invoice inquiry page for a web-based version of the invention.

Figure 14 shows the shipment tracking page for a web-based version of the invention.

Figure 15 shows the customized reports page for a web-based version of the invention.

Figure 15A shows a run cost report page for a web-based version of the invention.

Figure 15B shows a sample cost report.

Figure 15C shows a run tracking report page for a web-based version of the invention.

Figure 15D shows a sample tracking report.

Figure 16 shows the manage sub-accounts page for a web-based version of the invention.

Figure 17 shows the LTL rating process.

#### Detailed Description of the Preferred Embodiments

Set forth below is a description of what is currently believed to be the preferred embodiment or best example of the invention claimed. Future and present alternatives and modifications to this preferred embodiment are contemplated. Any alternatives or modifications which make insubstantial changes in function, in purpose, in structure or in result are intended to be covered by the claims of the patent.

The invention's preferred embodiment currently is a web site, and may best be understood in terms of use over the Internet. It can readily be seen, however, that the essential design of the system and the services provided by it do not require the use of a web site over the Internet, but may be implemented through the use of any server over any network, including the Internet, an IPX network, or any distributed network of computers with access to a server or computer on which the system operates. The system providing the services of the invention may comprise a number of



computers, such as a web server and a database server, or a single computer performing all of the functions of the invention, so long as the user may access the functions over a network.

The present preferred embodiment of the system is the preferred embodiment given the present technology available and the kinds of networks currently in popular use, and is not meant to restrict the specification or practice of the invention in any way by reference to a specific kind of network, server, computer, or operating system. Equivalent computers, networks, or operating systems are expressly contemplated by the invention, and could be used to practice the invention.

In Figure 1, the overview of the system is shown. The system server, including web server 1 and database server 2, permits users to access the services over the Internet 3 from any user computer 4 connected to the Internet. This connection may be via modem, DSL, Ethernet or any other connection. The user connects to web server 1 using the web browser of their choice. Examples of such browser programs are Netscape Navigator or Microsoft's Internet Explorer. It can readily be seen that access may also be by dedicated connection or direct dial-in, or any web browser software could be used to access the server in an alternate embodiment. In the present embodiment, it is preferred to use Internet Explorer or Netscape Navigator, which are the two most popular browsers in common use at the present time. Web server 1 is itself connected to database server 2, which performs the storage, query, and lookup functions of the invention. It can readily be seen that a single, more powerful computer could perform the functions of both web server 1 and database server 2, or that more than two computers may be used to perform the functions of the service. Any of user computer 4, web server 1, or database server 2 may also be protected by a firewall or other device without affecting the invention, so long as the system server is accessible by the user

computer. The database may be kept and required lookup functions performed via a variety of common web and database server programming methods. Individual lookup or searches of the database are not described in this description, as they are easily within the scope of one of ordinary skill in the art. The currently preferred embodiment of the invention uses Oracle 8.0 database software and Microsoft's Internet Information Server web server, but any similar server and database software may be used, and custom written software may be used in order to practice the invention. The use of any specific software or lookup table is not meant to limit the scope of the invention, but only as an example of the currently preferred embodiment. It is worth mention that the use of a web server and a database server or their equivalents are well known in the art, and where the specification calls for the database server, the web server, or the system, to perform a function without further description, the actual operation or programming of the system to perform the action or function described is well known in the art, and will be readily apparent to one skilled in the art. In the currently preferred embodiment, the servers used are as described, and the web pages themselves are programmed in HTML. Oracle is used to maintain the database of information, which permits the service's operators or administrators to alter the customer information, carrier information, rate information and other information stored within the database.

Figure 2, shows a flowchart of a possible presentation of the system to the user, in the currently preferred embodiment. The user enters the service by accessing a login page 5 via the user's web browser. On that page, one possible example of which is shown in Figure 3, the user enters the user's access code 23 and PIN 24. If the user is a prospective customer or has no access code, the user is given a promotional tour of the features of the service. If the user is an existing

customer, the user is redirected to the user main menu page. Figure 3 shows one example of a possible login page.

If the user is a customer, the customer will be redirected to the customer main menu 7 instead of the tour. Once on the customer main menu page, which is shown on Figure 4, the user is permitted to follow links in order to rate and schedule shipments 8, view shipment logs 9, view management reports 10, or review invoices 11. Links for each choice are provided on the main menu page. If the PIN 24 entered by the user on the login page indicates that a sub-account is to be used, access will be granted only to the sub-account's information.

As seen in Figure 4, every page which a user may visit may be custom branded with a special logo in the affinity indication portion 24 of the page. This logo will be based on the user's affiliation. For example, if the user is a member of the ABC Association, which the service determines based on the user's master account, the ABC Association's logo or title will be placed in the affinity indication portion 6 of each page during all access. This is true even of the tour, if the tour is the result of access based on a promotional flyer with a user code. The user enters the code, which begins the tour. The tour will be affinity branded based on the code entered. This permits affinity groups to market specifically to their members, with every aspect of the web site branded to their group.

If the user chooses to rate and schedule shipments, the user will be led through a series of pages for rating, scheduling, invoicing, and confirming the shipment. First, the user will be directed to the rate page 8, where the user may rate a shipment or a plurality of shipments. The user will then

be allowed to schedule any of the shipments, and will be led through the scheduling process for each shipment.

For each shipment, the user will be led through the following process, and may either confirm and send or cancel each shipment:

5 The user will be directed to the Schedule 1 page **12**, where the user may enter new shipping information or recall old shipping information in order to schedule the shipment or shipments. If the user enters new information, the system will store the new shipping information for future recall during the Schedule 2 **13** phase, as the user is directed to the additional services page at Schedule 3 **13**, where the user may choose accessorial services for each shipment. After choosing accessorial services, the user will be directed to choose a product description for the shipment on the product description page in the Schedule 5 phase **15**. The user may add or re-use product description, and the service will save any new product designations for future use. The user then schedules the pickup, on a scheduling page in the Schedule 6 phase **16**. The user may create an invoice to bill the user's customer in the Schedule 6 phase **17**, which the user may print out directly from the browser during the Print Invoice phase **18**. If the user confirms the shipment on the confirm shipment page **19**, the user prints a Bill off Lading (Print BOL **20**), the system faxes a Bill of Lading to the shipper if the shipper is different from the user, and the user may begin scheduling the next rated shipment, if any.

15 If the user has completed scheduling or canceling all rated shipments, the user is returned to the Customer Main Menu **7**.

I now describe the individual pages of the system, commencing with the scheduling pages. These pages are described in the same order they were discussed, and appear in Figure 2.

Figure 5 shows a web page designed for rating a single shipment or a plurality of shipments. For each shipment the user wishes to have rated, the user may enter the origin zip into an origin zip entry box 30, the destination zip into a destination zip entry box 31, select a class from a class drop down box 32, and enter the total weight in a total weight entry box 33. If the user chooses 'multiple' from drop down box 32, the user will be redirected to the multiple shipment information page (Fig. 5A). Once the user has entered the multiple class information for the shipment, the user will be returned to the rating page shown at Figure 5, which will now show the 'multiple' class for the shipment, and the total of the weight information entered in the multiple shipment information page. Upon entering all of the information and pressing the rate button 34, the system will rate the shipment according to the rating system described below (and shown in Fig. 17), and report the carrier in the carrier column 36 and that carrier's rate in the price column 35, along with the estimated time of transit in the estimated transit column 37. When the user has rated all the shipments desired, up to a maximum of ten in this embodiment, the user may choose which, if any of the shipments, to schedule. The user clicks 'yes' or 'no' in the radio buttons 39 in the arrange pickup column 38. Upon clicking the next button 40, the scheduling process will begin.

For each shipment, the user will follow the scheduling process, as described above, and shown in Figure 2. The first page shown to the user is the address information page, shown in Figure 6. This page permits the user to enter new addresses or access existing addresses in any convenient format. First the user will choose whether the user is the shipper, receiver, or a third party for the

shipment, using radio button **41A**. At Figure **6A**, the page is shown for the user as shipper. The user will enter or recall address information for the shipper and the recipient of the shipment. In the current preferred embodiment, existing addresses may be accessed through a drop down box associated with company name entry boxes **43** and **44**. These entry boxes permit the user to type in a new name, or, if existing companies are stored in the database server **2**, to access existing addresses by using the drop down box. If the drop down box is used, the remainder of the information in either shipping address box **41** or receiving address box **42** will be entered automatically by the web server **1** and database server **2**. Any format may be used for address information. The currently preferred embodiment suggests a format of Company, Street Address 1 and 2, City, State, Zip, Phone, Fax, Contact Name and Shipper Reference. The database of address information stored in the database server **2** stores the information by user and sub-account, if used, and permits the system to provide address storage to each user and sub-account.

As an additional verification step to reduce shipping errors, the receiving address data such as the zip code is compared against stored data for reconciliation. If the newly inputted information matches previously inputted information, no action is taken by the system. On the other hand, if an inconsistency is detected, such as an incorrect street number or zip code, the user will be prompted to verify that the correct information has been supplied. This may be done by simply having the user re-input the information or displaying the previously entered information so that a comparison may be made. Of course, the system may also prompt the user to select between the stored data and the new user input to make any needed reconciliation. Moreover, the system may also be programed to

allow the user to further edit the information stored by either editing the stored data or using the new user input as further new user input.

The shipment information box **45** permits the user to see information sufficient to indicate which shipment is currently being scheduled. In the currently preferred embodiment, the information presented is the carrier and carrier SCAC, origin and destination zip codes, weight, class, cost, fees, and estimated time of transit. It may readily be seen that the information presented need only be sufficient to identify the shipment, and need not necessarily be the same as that shown in the currently preferred embodiment. If the user is the shipper or the recipient, the user's information will automatically be shown in boxes **41** or **42**, as appropriate. If the user is a third party, the user's address information may be shown in a third box, and the user will choose or enter address information for both boxes **41** and **42**. The next button **46** allows the user to proceed to the accessorial services page and the back button **47** allows the user to return to the rating page.

The accessorial services page is shown as Figure 7. The same information is shown in the shipment information box **45**. The check boxes **50** each correspond to an accessorial service. It can readily be seen that the accessorial services **51** may be any set of accessorial services commonly offered by carriers. Upon the user checking one of the check boxes **50**, the corresponding additional charge **52** will be shown next to the corresponding accessorial service description **51** and, in the currently preferred embodiment, added to the Additional Fees section of shipment information box **45**. The charges are determined by the service's database server **2**, and displayed by the web server **1**. Thus, it is readily seen that the user, at all times, can see the exact price currently offered by the service for the shipment.

It is in this area of accessorial service charges that frequent billing errors occur. Billing errors of this type are so prevalent in the shipping industry, as a result of customer error or error by the shipper in properly inputting the data on the order, that an entire service industry to audit these types of errors has been created. These types of companies compare the invoices to the actual shipping data to determine if over-charges had been made. For example, charging for an accessorial service not provided or ordered. It is estimated that the these types of errors are in the hundreds of millions, if not more, given the size of this industry.

To reduce customer related input errors from occurring, the system may be programmed to require the user to address each accessorial service 51 listed. In operation, each check 50 is sequentially addressed with the user being required to indicate whether or not each accessorial service is required. Once each check box 50 is addressed, the user may then click the next button 48 to proceed to the product description page, or the back page button 49 to return to the address information page. Because of the importance of obtaining accuracy with respect to the accessorial services, the system may be programmed to prevent the user from moving further back or forward through the system until each accessorial service is addressed. In summary, it has been found that billing errors associated with accessorial services may be reduced by requiring a user to accept or decline each service before permitting the transaction to be completed.

In addition, a further benefit may be provided to the user in the form of a list or summary of accessorial services selected and services rejected. This is yet another verification step that has been found to reduce errors. As a further requirement, the system may also be programed to prevent the transaction from being completed until at least one element of the accessorial service list has been



selected by the user, or that no service has been affirmatively selected by the user. Lastly, the system may also be programed to prevent a transaction from being completed until all listed accessorial services have been addressed by the user.

The product description page is shown at Figure 8. This page allows the user to enter product descriptions for each class of product in the shipment. A product description drop down box 55 permits the user to use already available descriptions, or to store new descriptions in the database. If the user wishes to use a pre-existing description, the user simply chooses it using the product description drop down box 55. If the user wants to add a new description, the user simply chooses 'Add a Product' or a similar designation from product description drop down box 55, and types in the new description. The user will then choose an NMFC number to associate with the product, and enter the NMFC number in NMFC number box 58. If the user uses a pre-existing product description, the service will automatically use the NMFC number associated with that description in the database. Class and weight are shown in class display column 56 and weight display column 57. Class and weight are both shown for each portion of the shipment based on the information from the shipment rating page. The user may also check a hazardous materials check box 59 for any portion of the shipment. The price of the shipment will be automatically recalculated by the service and displayed in shipment information box 45. The user will also indicate, from a package type drop down menu 60 the type of package used with each portion of the shipment, and in a number of packages entry box 61 the number of packages of each type. Once all of these decisions have been made for each portion of the shipment, the user may click on next button 53 to proceed to the shipment ready page. The user may also click, at any time, on back button 54 to the accessorial

services page. The shipment ready page (Fig. 8A) simply permits the user to indicate, via drop down boxes 54B, 54C, and 54D, the time the shipment will be ready for pickup. Any equivalent method could be used. Next button 53A allows the user to proceed to the third-party invoice page, while back button 54A returns the user to the product description page.

5 The third-party invoice page is shown at Figure 9. This page allows the user to prepare an invoice for a third-party for each shipment scheduled, if desired. If the user wishes to print a third-party invoice, he may do so using invoice radio button 62. Using discount radio button 63 the user determined whether or not to pass on the discounts received from the service to the customer. In third-party address box 64, the customer chooses or enters address information for the third-party to receive the invoice, in the same manner as shown above. As above, the service permits the user to recall old third-party information by accessing the database server 2 via a drop down menu or enter new address information. Once the user has completed any necessary entries on this page, the user may click on next button 66 to proceed. The user may also click, at any time, on back button 67 to return to the shipment ready page.

10 If the user has chosen to print a third party invoice, upon clicking next button 66, the user will be presented with a specimen invoice, which the user may then print. Such a specimen invoice is shown at Figure 10. The user may click on print button 68 to print the invoice, then next button 69 to proceed to the complete shipment page. The user may also click on back button 70 to return to the third-party invoice page.

15 The complete shipment page is shown at Figure 11. This page presents the user with a final opportunity to cancel the shipment. If the user clicks on cancel movement button 71, the user will

cancel the shipment and proceed to scheduling the next shipment or return to the main menu if there are no further shipments to schedule. If the user clicks on ok button **72**, the shipment will be ordered, and the user will be presented with a Bill of Lading to review. A sample Bill of Lading page is shown at Figure **12**. Any reasonable bill of lading format could be used. In this example, when the user clicks on print button **73**, a bill of lading will be printed on the user's printer. The user may print as many copies of the BOL as needed, and then click on the next button **74** in order to proceed. If the user has rated shipments remaining to schedule, the user will be returned to the address information page to schedule the next shipment. If there are no remaining shipments to be scheduled, the user is returned to the main menu page.

There are three options other than rating and scheduling shipments available to the user from the main menu page (Fig. **4**). If the user clicks on invoice inquiry button **26**, the user will be redirected to the invoice inquiry page (Fig. **13**). If the user clicks on shipment logs button **27** the user will be redirected to the tracking shipments page (Fig. **14**). If the user clicks on customized reports button **28** the user's browser will be redirected to the customized reports page (Fig. **15**).

Each of these pages performs a different function. The invoice inquiry page (Fig. **13**) permits the user to review the status of all service invoices. This permits the user to view the current status of their account with the service. Invoices in the currently preferred embodiment are displayed by invoice number, and show the date of the invoice, the due date, the prior balance, payments or credits, and the total due. Any reasonable alternate format could be used to present the data, and the data could be presented in any reasonable tabular format. The scroll bar **75** in this embodiment permits the user to scroll through the available invoices. The data is stored on the database server

2. Upon receipt of payment, the service will update the database server 2 to reflect the payment. This can be performed by a direct database operation, or any software adapted for the purpose of making changes to the database. A separate administrative web page, program, or server are three alternatives available in the present state of the art.

5 The shipment tracking page (Fig. 14) permits the user to review the status of all shipments made by the user. This permits the user to view the current status of their shipments. Shipments in the currently preferred embodiment are initially displayed by the BOL number generated by the service, and the display shows the SCAC of the carrier performing the shipment, the date of the pickup, the date and time of the delivery, and the name of the recipient of the shipment. Any  
10 alternate format could be used to present the data, and the data could be presented in any format. The currently preferred embodiment displays the data in a tabular format. The scroll bar 76 in this embodiment permits the user to scroll up and down through the available shipments. In addition, if the user clicks on any of BOL number column heading 77, SCAC column heading 78, status column heading 79, pickup column heading 80, delivered column heading 81, signature column  
15 heading 82 or time column heading 83, the database server 2 will sort the shipments by the data contained in the column, and web server 1 will display shipment data in the resulting order. The data is stored on the database server 2. Upon receipt of new information, the service will update the database server 2 to reflect the payment. This can be performed by a direct database operation, or any software adapted for the purpose of making changes to the database. A separate administrative  
20 web page, program, or server are three alternatives available in the present state of the art. In addition, the carriers themselves could be given limited access to the database via a customized web

page to update information for shipments made by each carrier. Print BOL button **84** permits the user to reprint the BOL for a selected shipment by clicking on the shipment's row and then clicking on print BOL button **84**. Print POD button **85** permits the user to print a POD report for a given shipment, again by clicking on the shipment's row and then clicking on print POD button **85**.

5 The customized reports page (Fig. **15**) permits the user access to cost reports, tracking reports, and custom reports for an account or sub-account. The user may choose any kind of report to generate or to schedule. If the user clicks on cost report button **86**, **87** or **88**, the user will be given the opportunity to choose a location from the database of all locations shipped to or from. After choosing a location, the report will be printed, or scheduled to be run at a future time. By clicking on cost report button **86**, a report may be generated and may be printed for all shipments not yet  
10 invoiced to or from the location chosen. An example of the currently preferred run cost report page is shown at Figure **15A**, and a sample cost report is shown at Figure **15B**. By clicking on cost report button **86**, the user is redirected to a run cost report page. After filling in the information requested in origin zip box **87A** and destination zip box **87B** as well as date range start box **87C** and date range  
15 stop box **87D**, the user may indicate which method the user prefers to receive the report by, fax or email by clicking on radio buttons **87E**. After entering the destination information in box **87F** or **87G**, a report is generated when the submit button **87H** is clicked by the user, and the report is delivered via the method indicated by the user for any invoices in the date ranges chosen by the user for shipments to or from the location chosen. The report may be of any reasonable format, but the  
20 currently preferred format is shown in Figure **15B**. The reset button **87I** clears all fields. When the user clicks on cost report button **87**, the report may be generated for all shipments already invoiced

to or from the location chosen, using a run report page similar to that shown in Figure **15B**. When the user clicks on cost report button **88**, either of these reports may be scheduled to be run at a future time and shipped to the user via facsimile or e-mail, using a scheduling report page similar to the one shown in Figure **15B**, with the addition of date and time entry boxes to allow scheduling a future report run. The service will fax the report or e-mail the report over the distributed network at the time scheduled, automatically.

Likewise, if the user clicks on tracking report button **89, 90** or **91**, the user will be given the opportunity to choose a location from the database of all locations shipped to or from. After choosing a location, the report may be printed, or scheduled to be run at a future time. By clicking on tracking report button **89**, a tracking report may be generated and may be printed for all shipments not yet invoiced to or from the location chosen. By clicking on tracking report button **90**, a report is generated and may be printed for all shipments already invoiced to or from the location chosen. When the user clicks on tracking report button **91**, either of these tracking reports may be scheduled to be run at a future time and shipped to the user via facsimile or e-mail. A sample of a tracking report page is shown at Figure **15C**, which operates similarly to the cost report pages described above, again with the addition of date and time entry boxes for future scheduling. An example of a tracking report in the currently preferred embodiment is shown at Figure **15D**. Both the tracking reports and the cost reports may be in any reasonable format.

As is shown, it is also possible to permit custom reports to be designed or run, using custom report buttons **92, 93** or **94**. These buttons may permit the user to design a custom report based on any of the data stored in the database. These custom reports can then be run just like the tracking

and cost reports, either instantly or on a scheduled basis, with facsimile or e-mail delivery. Additionally, the user could request a special report to be designed, which would then be accessed via these boxes, similarly to the reports described above.

The manage sub-accounts page (Fig. 16) may be reached by the user by directing their browser to the enrollment page. The manage sub-accounts page permits the user to create sub-accounts for master account information entered in master account information box. The user enters their access code in access code box 95 and their PIN in PIN box 96. The service will recall and display the user's information in user information box 97. The user may then access the sub-account management functions of the page. These may be presented in any reasonable format. In the currently preferred embodiment, the sub accounts are managed as follows:

By using the sub-account drop down box 102, the user may access and alter already existing sub-accounts. Once the user has selected a sub-account using drop down box 102, the service will permit access the sub-account information, recalling it from the database server 2. Each sub-account may be allowed to rate and schedule, track, or view (depending on the settings of check boxes 100, set by the user) reports for any set of locations in the database accessible by the user's master account. The user selects those locations for desired access and adds them using the add location button 104. The service then modifies the database to reflect the sub-accounts access to the location added. The user may also alter or delete locations from the sub-account using the modify location button 107 and the delete location button 108. By re-entering the PIN for the sub-account in PIN box 101 the user may alter the PIN for an individual sub-account. The status of the sub-account may be changed or set using status radio button 99, and set to either subsidiary/affiliate or vendor/non-

affiliate. Once the user is done altering the sub-account, the user presses the save button **105**, and the service updates the database to reflect the changes or additions made by the user. The reset button **106** permits the user to reset the page to a neutral setting. Once the user has finished, the user may redirect their browser to another page.

5           The LTL rating process is described in the flowchart shown in Figure **17**. The LTL rating process is managed by the service. Once the user has input the rating data, the user chooses to rate the service by clicking 'rate', as described above. The database server **2** first runs a query against the database of carriers providing service to the zip codes chosen by the user, or determines the serviceable carriers **109**. The database server **2** then determines the base rate **110** for each carrier, which may be negotiated by the user's affiliation group or by the service. This step is performed for each serviceable carrier as determined above. The database server **2** then applies the appropriate carrier discount **111**, again determined from the database information as appropriate for the user's affiliation group or as negotiated by the service. This step is again performed for each serviceable carrier. If the resulting charge for the carrier is below their minimum charge, the service will apply the minimum charge instead of the calculated charge at the apply minimum charge step **114**. This step is also performed for each serviceable carrier. Finally, the system will apply the markup associated with the user or the user's affiliation group for each serviceable carrier at the apply markup step **115**. The resulting carriers and rates will then be displayed to the user by the web server in the form of a drop down box, as shown above.

20           It will be apparent to those of ordinary skill in the art that many changes and modifications could be made while remaining within the scope of the invention. It is intended to cover all such



equivalent methods or systems, and to limit the invention only as specifically delineated in the following claims.

It is readily apparent that the claimed invention may be embodied in a number of manners. Though the disclosed embodiment, and the currently preferred embodiment, is a series of web pages run on a web server **1** and a database server **2**, the invention could be a network-based program run over a distributed system, a set of web pages run on a single server or distributed server, or any other alternative which may be immediately apparent to one skilled in the art, and that advances in distributed networks may make possible embodiments which are not presently available without making substantial changes to the invention.

The above description is not intended to limit the meaning of the words used in the following claims that define the invention. Rather, it is contemplated that future modifications in structure, function or result will exist that are not substantial changes and that all such insubstantial changes in what is claimed are intended to be covered by the claims.

**What is claimed is:**

1. A computer based system for reducing errors in freight services and billing comprising:
  - a) a server computer;
  - b) a distributed network connected to the server computer;
  - 5 c) a user computer connected to the distributed network which can interact with the server computer; and
  - d) a database on the server computer containing accessorial service information;
  - e) programs or software for displaying accessorial services and requiring the user to address accessorial services offered and to select those accessorial services desired.
- 10 2. The system of claim 1 wherein each accessorial service must be addressed individually.
3. The system of claim 2 wherein the user is not permitted to complete the transaction until each service has been addressed.
- 15 4. The system of claim 1 wherein after completion of the selection a summary of services selected is presented to the user.
5. The system of claim 1 wherein after completion of the selection a summary of services selected and services rejected is presented.
6. The system of claim 1 wherein the accessorial services are presented as a list.

7. The system of claim 6 wherein the user is not permitted to complete the transaction until at least one element of the list has been selected by the user, or no service has been affirmatively selected by the user.

8. A computer based system for reducing errors in freight services and billing comprising:

- a) a server computer;
- b) a distributed network connected to the server computer;
- c) a user computer connected to the distributed network which can interact with the server computer; and
- d) a database on the server computer containing stored data comprising previously input user information;
- e) programs or software for reconciling new user input information with said stored data to reduce errors.

9. The system of claim 8 wherein the user is prompted to re-input information if an inconsistency is found between the new user input and said stored data.

10. The system of claim 8 wherein input zip code information is used to reconcile the new user input with said stored data.

11. The system of claim 8 wherein the user is prompted to select between the stored data and the new user input.

12. The system of claim 8 wherein the user is provided an opportunity to select either the stored data or the new user input.

- 13. The system of claim 8 wherein the user is provided an opportunity to select either stored data or the new user input to edit as a further new user input.
- 14. The system of claim 13 wherein said further new user input is reconciled against the stored data.

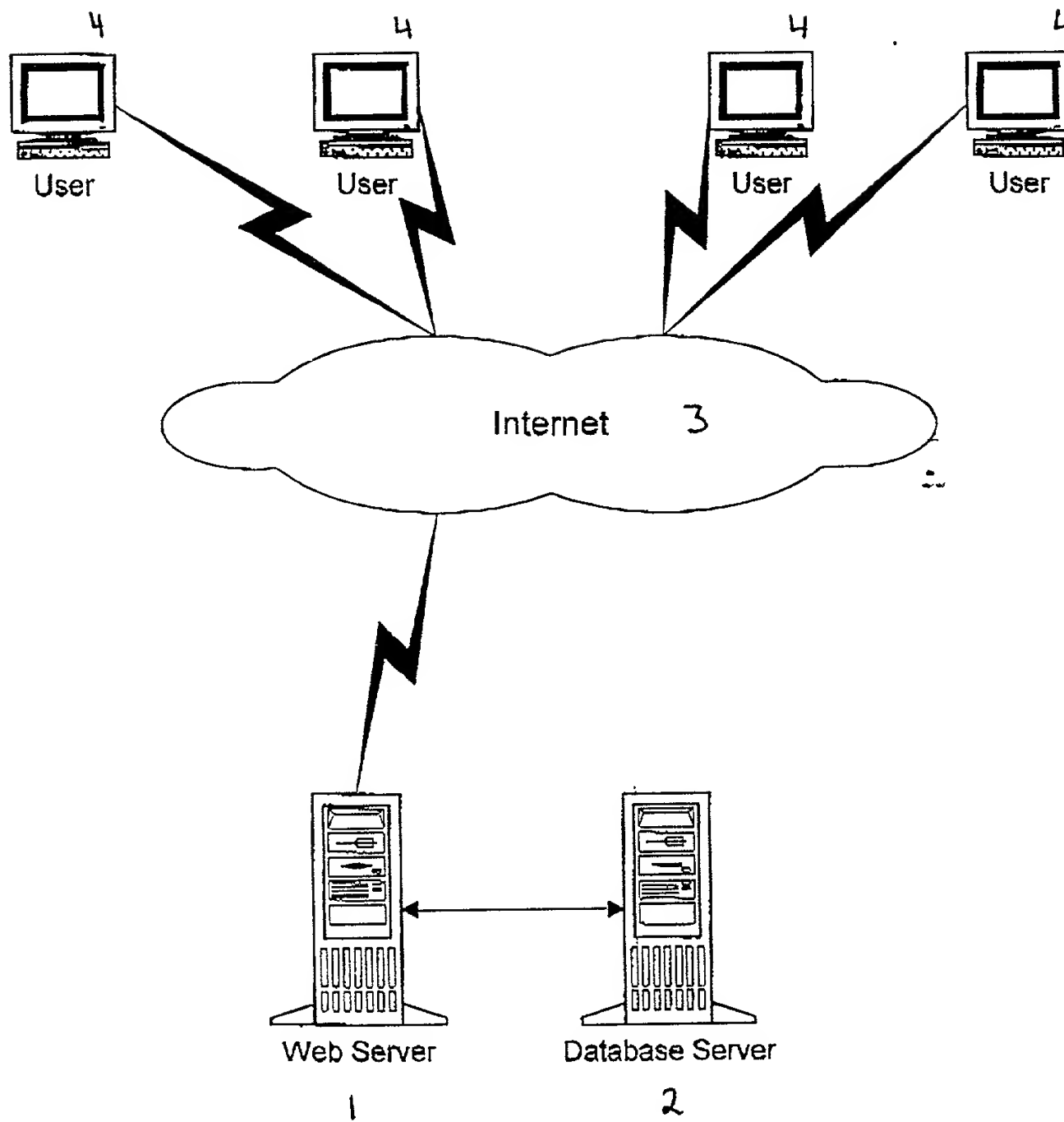


FIGURE 1

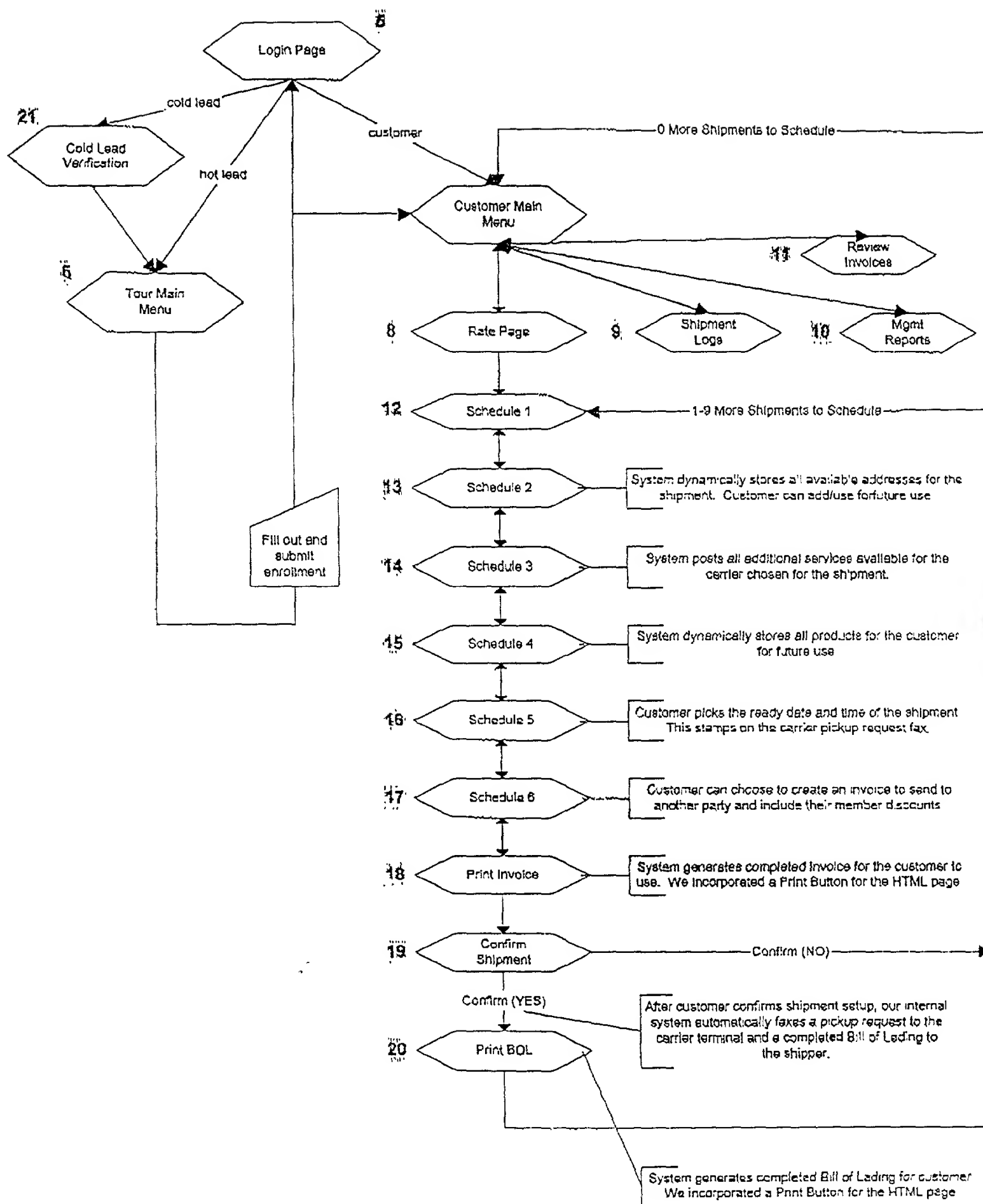


FIGURE 2

Access Code:  22

PIN:  23

2006-06-06 10:00:00

FIGURE 3

## Association Member Benefits 24

ABC Company

585 Main Street

29

Anytown, KS 66202

(Click a menu item)

**LTL Rate & Schedule Pickup**

25

**Invoice Inquiry**

26

**Shipment Logs**

27

**Customized Reports**

28

FIGURE 4



# Association Member Benefits 24

## Rate Your LTL Shipments

	Origin Zip	Dest. Zip	Class	Total Wt.	35 Member Price	36 Carrier SCAC	37 Est. Transit (days)	38 Arrange pickup	
1	66202	55125	70	1251	\$185.03	CFWY	1	<input checked="" type="radio"/> Yes <input type="radio"/> No	39
2	94544	66202	50	5230	\$713.18	CFWY	3	<input checked="" type="radio"/> Yes <input type="radio"/> No	
3	94544	85024	70	3212	\$431.64	CRNT	1	<input type="radio"/> Yes <input checked="" type="radio"/> No	
4	33124	64111	Multiple	810	\$165.86	ODFL	2	<input checked="" type="radio"/> Yes <input type="radio"/> No	
5					<b>Rate</b>			<input type="radio"/> Yes <input type="radio"/> No	
6					34			<input type="radio"/> Yes <input type="radio"/> No	
7								<input type="radio"/> Yes <input type="radio"/> No	
8								<input type="radio"/> Yes <input type="radio"/> No	
9								<input type="radio"/> Yes <input type="radio"/> No	
10								<input type="radio"/> Yes <input type="radio"/> No	

30      31      32      33

When you have completed rating all of your shipments and selected the shipments for pickup arrangement, click here.

**Next >>**

40

FIGURE 5

# Association Member Benefits 24

## Enter Multiple Shipment Information

	Origin Zip	Dest. Zip	Class	Wt. (lbs)	
2.	68202	55125	50	100	Enter classes and weights of each type of product being shipped for this movement.
			60	200	
				0	
				0	
				0	

Continue

FIGURE 5A

# Association Member Benefits 24

Schedule Your LTL Shipments

45

## Shipment 1 of 3

Carrier SCAC: ODFL  
Origin Zip: 66202  
Destination Zip: 55125  
Total Weight: 1252  
Class: 100  
Your Freight Cost: \$368.67  
Additional Fees: \$.00  
Total Cost: \$368.67  
Est. Transit (days): 1  
Carrier Name:  
Old Dominion Freight Line

Cancel this shipment

1 You are the ☒ Shipper of this shipment 41 A  
☐ Receiver  
☐ 3rd Party

## Shipping Address

Company: \_\_\_\_\_  
Street Address 1: \_\_\_\_\_  
Street Address 2: \_\_\_\_\_  
City, ST, Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Contact Name: \_\_\_\_\_

43

41

## Receiving Address

Company: \_\_\_\_\_  
Street Address 1: \_\_\_\_\_  
Street Address 2: \_\_\_\_\_  
City, ST, Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Contact Name: \_\_\_\_\_

44

42

FIGURE 6

45

Shipment 1 of 3

Carrier SCAC: ODFL

Origin Zip: 66202

Destination Zip: 55125

Total Weight: 1252

Class: 100

Your Freight Cost: \$368.67

Additional Fees: \$00

Total Cost: \$368.67

Est. Transit (days): 1

Carrier Name:

Old Dominion Freight Line

BACK

NEXT

47

46

2

Choose/Create receiving address information. Click Add, if you wish to add a new address. If your address is incorrect, please press the Help Button or call freightquote at 1-888-595-5664.

Shipping Address

Bill To Sender

Company:

ABC Company

43

Street Address 1:

585 Main Street

Street Address 2:

City, ST, Zip:

Anytown

KS

66202

Phone:

913

555

8535

Fax:

913

555

9000

Contact Name:

John Smith

Shipper Ref:

27

Receiving Address

Company:

Williams Distribution

44

Street Address 1:

6000 N. Kentucky Avenue

Street Address 2:

(loading dock)

City, ST, Zip:

Saint Paul

MIN

55125

Phone:

512

555

8000

Fax:

512

555

8500

Contact Name:

Ted Jackson

Receiver Ref:

FIGURE 6A

## Association Member Benefits

### Schedule Your LTL Shipments

#### Shipment 1 of 1

Carrier SCAC: ODFL  
Origin Zip: 66202  
Destination Zip: 55125  
Total Weight: 1252  
Class: 100  
Your Freight Cost: \$368.67  
Additional Fees: \$17.50  
Total Cost: \$386.17  
Est. Transit (days): 1  
Carrier Name:  
Old Dominion Freight Line

3 Choose all accessorial services required for this shipment. Extra charges may apply. An audit of this shipment must be done by freightquote that may change the amount posted to you.

- |  |         |
|--|---------|
| 51   | 52      |
| <input checked="" type="checkbox"/> Arrival Notification | \$17.50 |
| <input type="checkbox"/> Construction Site               |         |
| <input type="checkbox"/> Inside Delivery                 |         |
| <input type="checkbox"/> Liftgate Service                |         |
| <input type="checkbox"/> Reconsignment                   |         |
| <input type="checkbox"/> Redelivery                      |         |
| <input type="checkbox"/> Residential Deleivery           |         |
| <input type="checkbox"/> Residential Pickup              |         |
| <input type="checkbox"/> Saturday Delivery               |         |

BACK NEXT

49

48

↑  
50

FIGURE 7

## Association Member Benefits

### Schedule Your LTL Shipments

#### Shipment 1 of 3

Carrier SCAC: ODFL  
Origin Zip: 66202  
Destination Zip: 55125  
Total Weight: 1252  
Class: 100  
Your Freight Cost: \$368.67  
Additional Fees: \$.00  
Total Cost: \$368.67  
Est. Transit (days): 1  
Carrier Name:  
Old Dominion Freight Line

4 Choose or Create Product Description for each product being shipped for this movement. A NMFC# is required for each product. Choose (Add a Product) from the Product Description drop down box if you wish enter new product information

	Product Description	Class	Weight	NMFC#	HZMT	PKG Type	# of PKGs
1	Steel Pails	100	1252	12345-02	Γ	Pallet	2
	55	56	57	58	59	Pallet Crate Box Roll	61

60

BACK NEXT

54

53

Figure 8

## Association Member Benefits

24

### Schedule Your LTL Shipments

45

#### Shipment 1 of 3

Carrier SCAC: ODFL  
Origin Zip: 66202  
Destination Zip: 55125  
Total Weight: 1252  
Class: 100  
Your Freight Cost: \$368.67  
Additional Fees: \$.00  
Total Cost: \$368.67  
Est. Transit (days): 1  
Carrier Name:  
Old Dominion Freight Line

BACK

54A

NEXT

53A

5 Identify when your shipment is ready for pickup from the carrier  
Please allow the carrier 48 hours after the shipment ready date  
and time to pick-up.

Schedule your pickup within  
the next 2 business days.

#### Ready Date

Monday, March 15, 1999

#### Ready Time

After 8:00 AM

Before 5:00 PM

Please allow the carriers a 4 hour  
window to pickup within.

548

546

540

#### Shipping Address

Company: ABC Company  
Street Address 1: 585 Main Street  
Street Address 2:  
City, ST, Zip: Antwerp KS 66202  
Phone: 9135558535 Fax: 9135559000  
Contact Name: John Smith Shipper Ref:

#### Receiving Address

Company: Williams Distribution  
Street Address 1: 6000 N. Kentucky Avenue  
Street Address 2: (loading dock)  
City, ST, Zip: Earl Park MN 55125  
Phone: 5125558000 Fax: 5125558500  
Contact Name: Ted Jackson Receiver Ref:

FIGURE 8A

## 24

## 45

## Old Dominion Freight Line

**A**

62

63

**B**

Normal	
Discounted Rate	
\$405.53	6.4

64

Your Reference # ABC1232|

67

66

65

FIGURE 9



Print your customer's invoice copy by clicking the Print Invoice button.

**Print Invoice**

68

**INVOICE****TO:**

Williams Companies  
500 E. 152nd Street  
New York, NY 21212

**FROM:**

ABC Company  
585 Main Street

Anytown, KS 66202

Ph: 9135558585

Fax: 9135559000

**Invoice Summary****BOL#:** 10014**Invoice Amount:** \$349.47**Carrier:** Old Dominion Freight Line**Invoice Date:** 3/18/99

Review the invoice. If invoice changes are needed, click Back to go back and make corrections.

**BACK****NEXT**

If the invoice is correct, print the invoice using the print button and click Next.

70

69

FIGURE 10

## Association Member Benefits 24

**Press OK to complete this shipment and print Bill of Lading (BOL).**

1. If you are not the sender, please notify them regarding this movement and fax a copy of the completed Bill of Lading to the sender. The sender must use our generated Bill of Lading (BOL) in order for you to receive accurate pricing and shipment processing.
2. The carrier will pick up your freight within 48 hours of the scheduled Ready Date and Time. You do not need to contact the carrier for pickup.
3. We will invoice you at the end of the month for this movement. If any freight information changes for this movement, additional freight charges or fees may be added to this movement's cost after shipment auditing (1-4 weeks).

**OK**

**Cancel Movement**

72

71

Figure 11

Print BOL - Microsoft Internet Explorer

Use button below to print three copies of this Bill of Lading. Your driver must use this Bill of Lading to insure accurate shipment processing.

BOL#: 10006

PRO#:

Shipper Information

Shipper Name

ABC Company

Street Addr1

585 Main Street

Street Addr2

N/A

City, ST, Zip

Anytown, KS 66202

Phone

9135558585

Contact

John Smith

Ref

N/A

PO#

N/A

Receiver Information

Receiver Name

Williams Distribution

Street Addr1

6000 N. Kentucky Avenue

Street Addr2

(loading dock)

City, ST, Zip

saint paul, MN 55125

Bill Third Party To:

FREIGHTQUOTE, LLC

10100 SANTA FE DR.

SUITE 100

OVERLAND PARK, KS 66212

Bill Charges To:

PREPAID / BILL THIRD PARTY ONLY

Special Instructions:

1

Print Bill of Lading (BOL) by clicking here

Print BOL

73

2

Give two copies to the driver. Keep one for your records.

3

Thank you for using freightquote.com.

Click here to continue

NEXT

74

Don't forget to print 3 copies of the BOL (give 2 to the driver)

FIGURE 12

## Association Member Benefits 24

Inv#	Inv Date	Due Date	Prior Bal	New Charges	Payments/Crdts	Total Due
123456	2/28/1999	3/20/1999	0	252.12	0	252.12
145678	3/31/1999	4/20/1999	252.12	558.15	252.12	558.15
156789	4/30/1999	5/20/1999	558.15	1020.60	500.00	1079.62*
178922	5/31/1999	6/20/1999	1079.62	1150.50	1079.62	1150.50
165678	6/30/1999	7/20/1999	252.12	558.15	252.12	558.15
176789	7/31/1999	8/20/1999	1079.62	1150.50	1079.62	1150.50

\* Includes a 1.5% finance charge added to unpaid prior balance

Figure 13

## Association Member Benefits 24

Click on the column you wish to arrange your shipments by. Highlight the desired shipment and click Print BOL (Bill of Lading), or Print POD (Proof of Delivery).

77	78	79	80	81	82	83
BOL Number	SCAC	Status	Picked UP	Delivered	Signed By	Time
1234567800001	AMER	PENDING	4/03/1999			
1234567800002	ODFL	PENDING	4/04/1999			
1234567800003	CFWY	IN TRANSIT	4/02/1999			
1234567800004	CFWY	IN TRANSIT	4/02/1999			
1234567800005	AMER	DELIVERED	3/15/1999	3/17/1999	J SMITH	13:45
1234567800006	DAFG	DELIVERED	3/02/1999	3/05/1999	R JOHNSON	13:45

Print BOL

84

Print POD

85

FIGURE 14

Click on the report you wish to run. Autorun Reports are highlighted in Blue (you will automatically receive these reports).

Shipments To Be  
Invoiced

Shipments Already  
Invoiced

Create Autorun  
Reports

Cost Report:  
To/From  
Specified  
Locations

86

Cost Report:  
To/From  
Specified  
Locations

87

Cost Report:  
To/From  
Specified  
Locations

88

Tracking  
Report:  
Shipment  
Transit Status

89

Tracking  
Report:  
Shipment  
Transit Status

90

Tracking  
Report:  
Shipment  
Transit Status

91

CREATE  
CUSTOM  
REPORT

92

CREATE  
CUSTOM  
REPORT

93

CREATE  
CUSTOM  
REPORT

94

FIGURE 15

# Run Cost Report

## Report 1: Zip Code Range

Locations      Origin 87A      Destination 87B  
66212      to      ALL

Date Range      Start      Stop  
1/1/1999      to      1/31/1999  
87C      87D

87E      Email      to      jsmith@abc-company.net      87F  
Fax      to           87G

Submit

87H

Reset

87I

Figure 15A

Report Name: **Billing Summary**

Report Date: 3-May-99

from: **1-Jan-99** to **31-Jan-99**

Report on: Master Account  
ABC Company  
123 South Main Street  
Overland Park, KS 66212

Report to: Master Account  
ABC Company  
123 South Main Street  
Overland Park, KS 66212

	<u>BOL#</u>	<u>Ship Date</u>	<u>Delivered</u>	<u>Weight</u>	<u>Cost</u>
1	100001	1/1/99	1/4/99	120	\$68.50
2	100002	1/1/99	1/4/99	100	\$85.23
3	100003	1/1/99	1/4/99	656	\$122.20
4	100004	1/5/99	1/8/99	230	\$51.12
5	100005	1/5/99	1/8/99	58	\$40.00
6	100006	1/10/99	1/14/99	502	\$98.90
7	100007	1/10/99	1/14/99	650	\$225.25
8	100008	1/10/99	1/15/99	250	\$100.20
9	100009	1/11/99	1/15/99	120	\$68.50
10	100010	1/15/99	1/19/99	50	\$60.20
11	100011	1/15/99	1/23/99	220	\$122.20
12	100012	1/23/99	1/25/99	262	\$51.90
13	100013	1/23/99	1/26/99	120	\$64.50
14	100014	1/23/99	1/26/99	85	\$85.82
15	100015	1/23/99	1/29/99	1252	\$321.01
16					
17					
18					
19					
20					

Total Page 1: \$1,565.53

Overall Total: \$1,565.53      Average: \$104.37

FIGURE 15B



# Run Tracking Report

## Report 1: Zip Code Range

	<u>Origin</u>		<u>Destination</u>
<b>Locations</b>	66212	to	55125
	<u>Start</u>		<u>Stop</u>
<b>Date Range</b>	1/5/1999	to	1/31/1999

☒ Email to

☐ Fax to

FIGURE 15C

Report Name: Transit Summary

Report Date: 6-May-99

from: 1-Jan-99 to 31-Jan-99

Report on: Affiliate Account  
ABC Company  
555 Williamsburg Ave  
Dayton, OH 55125

Report to: Master Account  
ABC Company  
123 South Main Street  
Overland Park, KS 66212

	<u>BOL#</u>	<u>Ship Date</u>	<u>Delivered</u>	<u>Weight</u>	<u>Transit Days</u>
1	100001	1/1/99	1/4/99	120	1
2	100002	1/1/99	1/4/99	100	1
3	100003	1/1/99	1/4/99	656	3
4	100004	1/5/99	1/8/99	230	3
5	100005	1/5/99	1/8/99	58	3
6	100006	1/10/99	1/14/99	502	3
7	100007	1/10/99	1/14/99	650	4
8	100008	1/10/99	1/15/99	250	5
9	100009	1/11/99	1/15/99	120	4
10	100010	1/15/99	1/19/99	50	2
11	100011	1/15/99	1/23/99	220	6
12	100012	1/23/99	1/25/99	262	1
13	100013	1/23/99	1/26/99	120	2
14	100014	1/23/99	1/26/99	85	2
15	100015	1/23/99	1/29/99	1252	5
16					
17					
18					
19					
20					

Avg. Transit: 3

FIGURE 15D

## Master Account

Access Code: 2B94450 95 PIN #: 2264 96  
Acct Contact: ROBERT JONES  
Company Name: ABC COMPANY  
Street Address 1: 8990 WILLIAMSBURG AVENUE  
Street Address 2: SUITE 230  
City, ST Zip: OVERLAND PARK KS 66211 97

## Sub-Accounts

☒ Show All Locations ☐ Show Only Subsidiary/Affiliate ☐ Show Only Vendor/Non Affiliate 98

105 Save 106 Reset

Add Location 104

Choose One -

- 99  
☒ Subsidiary/Affiliate  
☐ Vendor/Non-Affiliate

### Access Rights

100  
98  
☒ Rating (not recommended for vendor/non affiliate)

☒ Tracking (for this location only)

☐ Reports (historical shipment info. for this location only)

PIN #: 89903 101 Sub-Account #: 008 102

Company Name: ABC COMPANY 103

Street Address 1: 555 SOUTH MAIN STREET

Street Address 2: (LOADING DOCK)

City, ST Zip: ST. PAUL MN 55125

Shipping Contact: JERRY SMITH

Phone: 512 555 5660 Modify This Location 107

Fax: 512 555 5670 Delete This Location 108

Figure 16

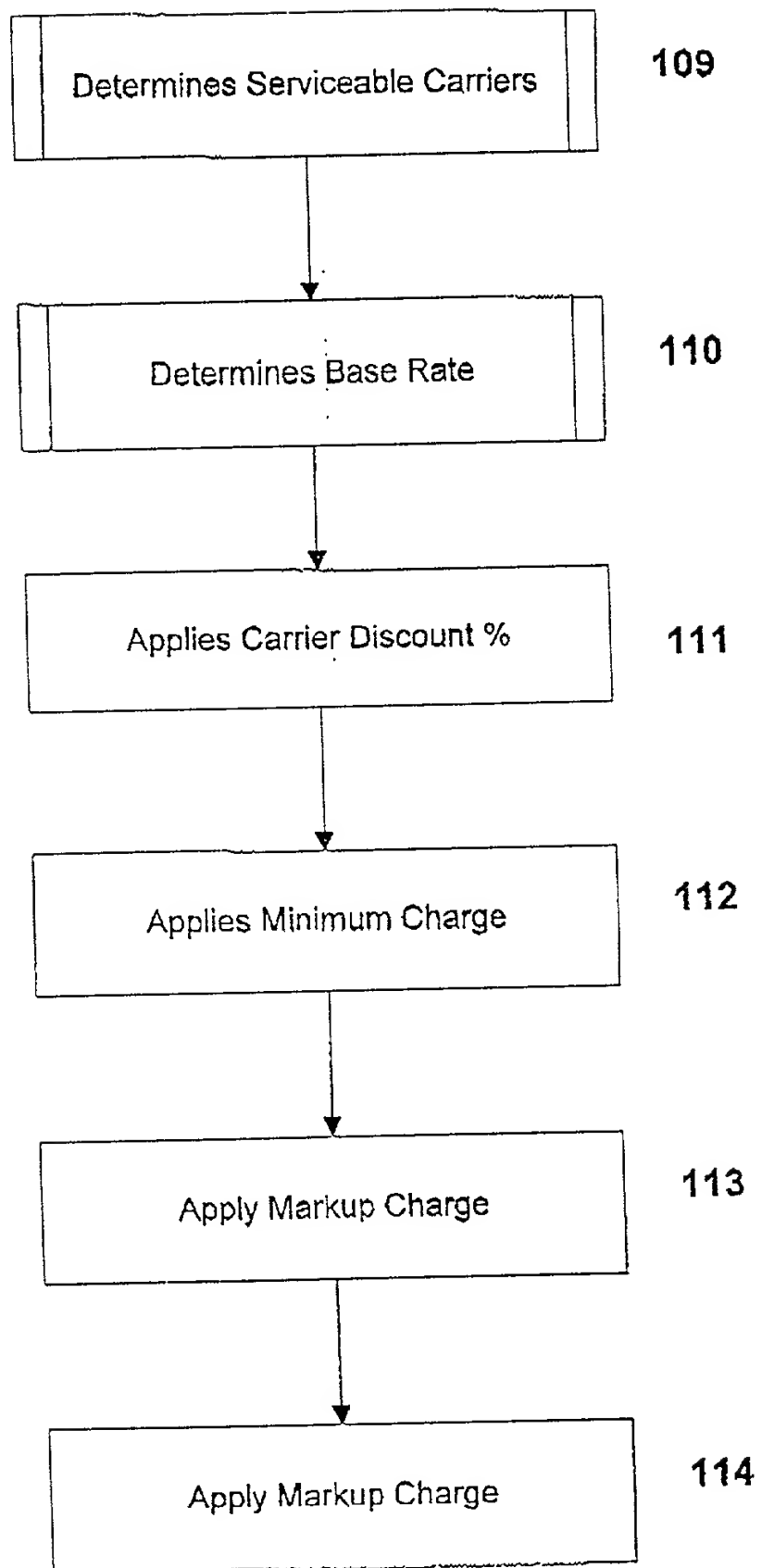


FIGURE 17